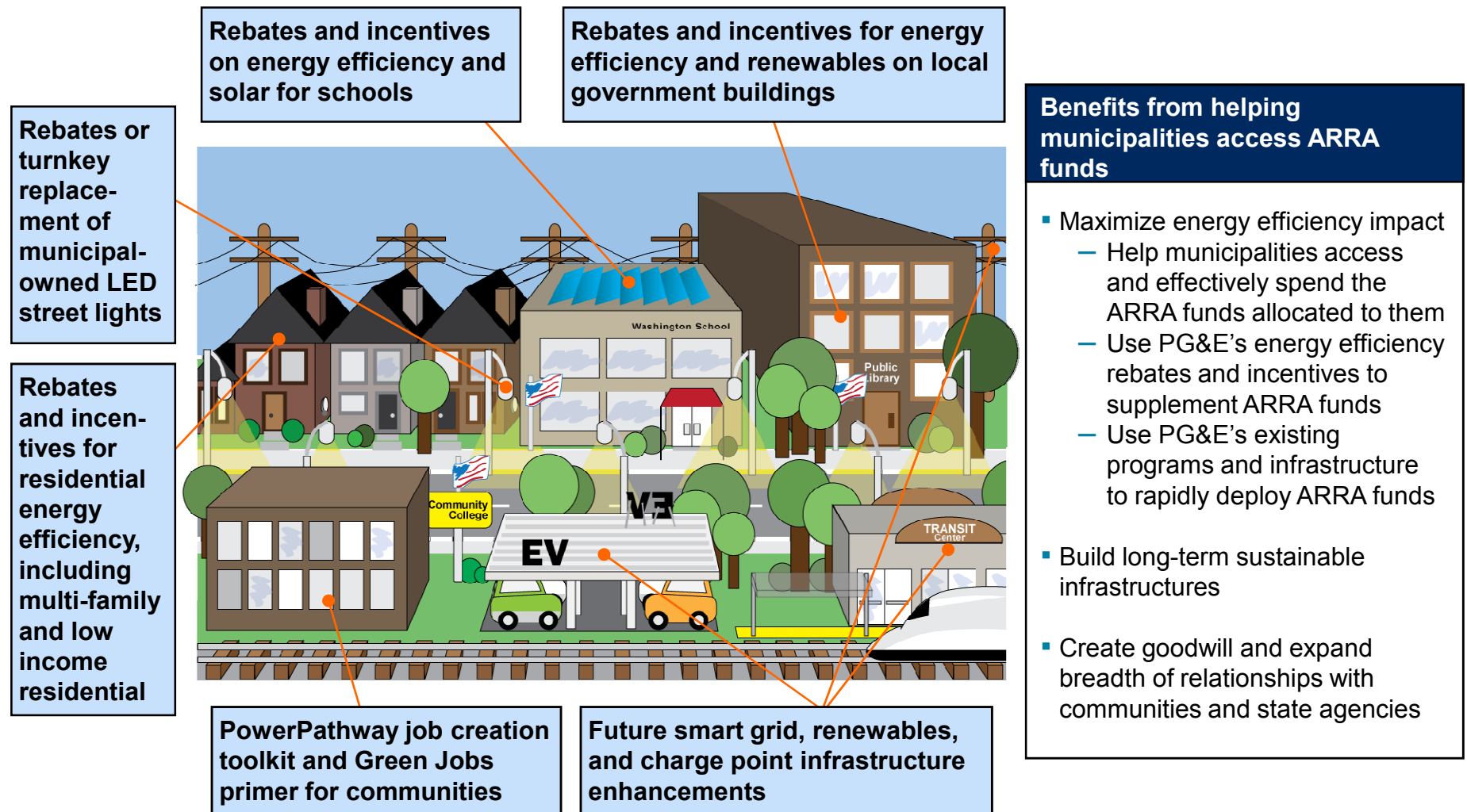




# Overview of PG&E's Federal Stimulus Activities

Road to Recovery  
July 8, 2009

# ARRA funds provide a unique opportunity to expand Energy Efficiency and Renewables in communities



# We presented a number of offerings to support our communities for Formula Block Grants

Letters of Support

## Description: Support Specific to ARRA

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- Letters from PG&E that can be included in a community's application for DOE formula block grants

Grant writing

- Support from PG&E grant writer to draft Energy Efficiency Conservation Block Grant applications

Sales engineering support

- Support from PG&E sales engineers to evaluate and scope potential energy efficiency projects

Turnkey LED street light replacement

- A "turnkey" approach to replace high pressure sodium streetlights with LEDs

## Description: Business as usual

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Rebates and incentives

- Business as usual rebates, incentives, and project support for energy efficiency initiatives

Templates and modules

- Provided "copy and paste" language that a community can use to complete the project summary section of the application

Municipal EE match-making and direct install

- Match-making with approved EE direct install subcontractors and approved EE subcontractors for municipal buildings EE measures

# PG&E's integrated approach accelerates the reliable deployment of smart grid technologies

*Italics =*  
Potential demonstration  
project



## Standards definition

- PG&E plays a broader role in shaping and accelerating the standards that will underlie future smart-grid implementations
- Expands upon PG&E's proven leadership role in shaping standards
- Includes:
  - Accelerated standards development*



## Testing facilities

- PG&E expands and accelerates its plans for a fully-functional, extensible testing facility to enable rapid prototyping and testing of smart-grid technologies
- Accelerates technology development and ensures standards compliance early on
- Builds upon PG&E's state-of-the-art off-grid testing facilities
- Includes:
  - Expanded smart grid test facility*

## Pilots

- PG&E implements tested technologies in a real-world setting to demonstrate value of the end-to-end smart grid
- Partnerships spanning the smart-grid ecosystem ensure that insights are scalable
- Includes:
  - HAN demonstration*
  - Regional synchro-phasor demonstration*
  - Underground compressed air energy storage demonstration*



PG&E's  
service area  
in California

## Full system deployment

- PG&E extends current pilots to full-scale roll-out, assuming benefits and technology are proven
- PG&E's industry-leading smart-meter deployment allows it to be at the leading-edge of other smart-grid technology deployments
- Insights are used to feed the next cycle of the technology deployment cycle